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FORM PTO-1449 (Modified)

U.S. Department of Commerce Patents and Trademark Office

Attorney Docket No.: MLNR-08101

Serial No.: 09/721,528

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xaminer Initials		Serial / Patent Number	Issue Date	Applic	ant / Patentee	Class	Subclass	Filing	g Date
1.11	AA	4,141,209	02/27/79	Bar	mett et al.	58	23 A	12/2	7/76
	AB	4,350,957	09/21/82	M	liyamoto	329	107	04/16/80	
	AC	5,245,565	09/14/93	Pete	ersen et al.	364	825	07/31/9	
'	AD	5,936,474	08/10/99	R	ousselin	331	34	03/2	8/97
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1		Document Number	Publication Date	Country	/ Patent Office	Class	Subclass	Yes	N
しんい	AQ	EP 0 344 852 A1	12/06/89		EP	нозн	11/04		2
	AR	EP 0 576 082 A1	12/29/93		EP	H04B	1/26		
	AS	EP 0 660 504 A1	06/28/95		EP	нозв	5/12		2
	AT	EP 0 723 335 A1	07/24/96		EP	Н03Ј	7/02		,
l	AU	EP 0 948 129 A1	10/06/99		EP	H03D	7/18	<u> </u>] 2
		ОТНЕК	DOCUMENTS (Includi	ing Author, Title, D	ate, Keievant Pages, P	ace of rubilication)			
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(37 CFR § 1.5	<u> </u>			U.S. PATENT DOC			<u> </u>		
Examiner Initials		Serial / Patent Number	Issue Date	<u> </u>	ant / Patentee	Class	Subclass	Filing	Date
1110	AA	5,303,420	04/12/94		Jang	455	343	07/29	/91
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V.V.	AQ	EP 0 833 482 A2	04/01/98		EP	H04L	27/233		X
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レル	AV	Hidehiko Kuroda et a 161-167, Compound	al., "Development of Lo Semiconductor Device	ow-Power Consumption Division, NEC IC M	n RF/IF Single-Chip Transce icrocomputer Systems, Ltd.	viver IC for PHS,	" Doc. No. XP-00	10832839, p	pp.
レル	AW	Angel Boveda et al.,	"GaAs Monolithic Sing	gle-Chip Transceiver,"	Doc. No. XP-000538492, p	p. 31-34, IEEE, 1	May 15, 1995.		
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Attorney Docket No.: MLNR-08101

Serial No.: 09/721,528

Applicant: Gwilym Luff et al.

7 CFR § 1.98	8(b))	Malse Several TRADE	s If Necessary)		Filing Date: Novemb	per 22, 2000	Group Art Unit	:: 2682		
			U.:	S. PATENT DOCU	IMENTS					
Examiner Ipitials		Serial / Patent Number	Issue Date	Applicar	nt / Patentee	Class	Subclass	Filing	Date	
L.L.	AA	4,723,318	02/02/88	Ma	arshall	455	455 109		12/16/85	
	AB	4,823,092	04/18/89	Pe	nnock	330	253	05/2	3/86	
	AC	4,918,338	04/17/90	V	Vong	307	521	10/0-	4/88	
	`AD	5,182,477	01/26/93	Yama	saki et al.	307	494	01/14/92 08/02/93		
	AE	5,345,190	09/06/94	К	aylor	. 330	258			
	AF	5,491,447	02/13/96	Goets	chel et al.	330	254	05/1	3/94	
	AG	5,680,072	10/21/97	Vul	ih et al.	327	554	01/2	4/96	
	АН	5,734,294	03/31/98	Bezz	am et al.	327	552	02/1	5/96	
	AI	6,060,935	05/09/00	Sh	ulman	327	345	10/1	0/97	
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				U.S. PATENT DOC	UMENTS				
Examiner Initials		Serial / Patent Number	Issue Date	Applica	ant / Patentee	Class	Subclass	Filing	Date
レル	AA	4,029,904	06/14/77	P	apeschi	178	88	11/2	4/75
	AB	4,873,702	10/10/89		Chiu	375	76	10/2	0/88
	AC	5,222,078	06/22/93	Ca	son et al.	375	76	11/1	3/91
	AD	5,663,989	09/02/97	Fo	obbester	375	344	10/1	8/94
	AE	5,960,046	09/28/99	. Mo	orris et al.	375	347	12/0	3/96
	AF	6,370,205 B1	04/09/02	Line	doff et al.	375	319	07/0	2/99
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FORM PTO-1449 (Modified) INFORMATION DISCLOSURE STATEMENT BY APPLICANT

U.S. Department of Commerce Patent and Trademark Office

Attorney Docket No.: MLNR-08101

Serial No.: 09/721,528

Applicant: Gwilym Francis Luff et al.

CFR § 1.98	3(b))	TRADEMAR	s If Necessary)		Filing Date: November	22, 2000	Group Art Uni	t: 2682	32	
				U.S. PATENT DO	CUMENTS					
xaminer Initials		Serial / Patent Number	Issue Date	Appli	cant / Patentee	Class	Subclass	Filing	Date	
ハレ	AA	3,988,606	10/26/76	F	Eggermont	235	156	05/3	0/75	
	AB	4,397,210	08/09/83		Finch	84	1.03	12/1	1/81	
	AC	4,839,905	06/13/89	1	Mantovani	375	12	04/30/86		
	AD	5,239,273	08/24/93	He	dstrom et al.	329	312	06/1	06/18/92	
	AE	5,625,583	04/29/97		Hyatt	365	45	06/06/95 03/28/97 11/15/99		
E4 (2000)	AF	6,175,746 B1	01/16/01	Nal	kayama et al.	455	552			
	AG	6,313,885 B1	11/06/01		Patel et al.	348	725			
	АН	6,603,818 B1	08/05/03	Dr	ess, Jr. et al.	375	295	09/2	3/99	
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